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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2019 United States Special Operations Command **Date:** February 2018

<b>Appropriation/Budget Activity</b> 0400: Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development					<b>R-1 Program Element (Number/Name)</b> PE 1105219BB / MQ-9 Unmanned Aerial Vehicle (UAV)							
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019 Base</b>	<b>FY 2019 OCO</b>	<b>FY 2019 Total</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	63.298	17.155	37.863	18.403	-	18.403	20.793	21.361	19.522	19.912	Continuing	Continuing
S851: MQ-9 Unmanned Aerial Vehicle (UAV)	63.298	17.155	37.863	18.403	-	18.403	20.793	21.361	19.522	19.912	Continuing	Continuing

**A. Mission Description and Budget Item Justification**

This program element identifies, develops, integrates, and tests Special Operations Forces (SOF) - peculiar mission kits, mission payloads, weapons, and modifications on MQ-9 Unmanned Aerial Vehicles (UAVs), Ground Control Stations (GCSs), and training systems as a component of the Medium Altitude Long Endurance Tactical program. USSOCOM is designated as the DOD lead for planning, synchronizing, and as directed, executing Overseas Contingency Operations (OCO) against terrorist networks. USSOCOM requires the capability to find, fix, finish, exploit, and analyze time-sensitive high-value targets. These targets can often only be identified with patient collection of information and require rapid, decisive action during the short periods in which they present themselves. This program element addresses the primary areas of Intelligence, Surveillance, Reconnaissance, and Target (ISR&T) Acquisition, and Strike.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019 Base</b>	<b>FY 2019 OCO</b>	<b>FY 2019 Total</b>
Previous President's Budget	17.804	37.863	14.259	-	14.259
Current President's Budget	17.155	37.863	18.403	-	18.403
Total Adjustments	-0.649	0.000	4.144	-	4.144
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.649	-			
• OTHER	-	-	4.144	-	4.144

**Change Summary Explanation**

Funding:

FY 2017: Decrease of -\$0.649 million is due to a transfer of funds to Small Business Innovative Research/Small Business Technology Transfer programs.

FY 2018: None.

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Appropriation/Budget Activity	R-1 Program Element (Number/Name)	
0400: Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development	PE 1105219BB / MQ-9 Unmanned Aerial Vehicle (UAV)	
FY 2019: Net increase of \$4.144 million is due to fact of life missions support to field and maintain SOF peculiar modifications (\$4.300 million) and a decrease of -\$0.156 million due to a Departmental economic assumption adjustment.		
Schedule: None.		
Technical: None.		

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Exhibit R-2A, RDT&E Project Justification: PB 2019 United States Special Operations Command										Date: February 2018		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1105219BB / MQ-9 Unmanned Aerial Vehicle (UAV)				Project (Number/Name) S851 / MQ-9 Unmanned Aerial Vehicle (UAV)			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
S851: MQ-9 Unmanned Aerial Vehicle (UAV)	63.298	17.155	37.863	18.403	-	18.403	20.793	21.361	19.522	19.912	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
A. Mission Description and Budget Item Justification												
As the supported combatant command in Overseas Contingency Operations (OCO), USSOCOM requires the capability to find, fix, finish, exploit, and analyze time-sensitive high-value targets. These targets can often only be identified with patient collection of information and require rapid, decisive action during the short periods in which they present themselves. This project addresses the primary areas of Intelligence, Surveillance, Reconnaissance, and Target (ISR&T) Acquisition and Strike.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2017	FY 2018	FY 2019	
Title: MQ-9 UAV									17.155	37.863	18.403	
Description: Identifies, develops, integrates, and tests Special Operations Forces (SOF)-peculiar mission kits, mission payloads, weapons, and modifications on MQ-9 UAVs, ground control stations, and training systems.												
FY 2018 Plans:												
Develop, test, and integrate SOF-peculiar emerging technology mission kits, mission payloads, weapons and modifications on MQ-9 UAVs, GCSs, and training systems.												
FY 2019 Plans:												
Develops, tests, and integrates SOF-peculiar emerging technology mission kits, mission payloads, weapons and modifications on MQ-9 UAVs, GCSs, and training systems.												
FY 2018 to FY 2019 Increase/Decrease Statement:												
Decrease of \$19.304 million due to the MQ-9 program receiving FY 2018 funding to develop Automatic Takeoff & Landing and Global Positioning System Hardening technologies.												
Accomplishments/Planned Programs Subtotals									17.155	37.863	18.403	
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost	
• PROC/1108MQ9: MQ-9 Unmanned Aerial Vehicle	84.723	41.440	24.621	-	24.621	5.363	5.470	10.717	10.931	Continuing	Continuing	

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2019 United States Special Operations Command										<b>Date:</b> February 2018		
<b>Appropriation/Budget Activity</b> 0400 / 7				<b>R-1 Program Element (Number/Name)</b> PE 1105219BB / MQ-9 Unmanned Aerial Vehicle (UAV)				<b>Project (Number/Name)</b> S851 / MQ-9 Unmanned Aerial Vehicle (UAV)				
<b>C. Other Program Funding Summary (\$ in Millions)</b>												
	<u>Line Item</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u> <u>Base</u>	<u>FY 2019</u> <u>OCO</u>	<u>FY 2019</u> <u>Total</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
<b>Remarks</b>												
<b>D. Acquisition Strategy</b>												
MQ-9 UAV implements an Agile acquisition approach for aircraft and Electro-Optical/Infrared (EO/IR) sensor Operational Flight Program (OFP) software development. Contract types include a mix of cost type and fixed priced. Proprietary issues with aircraft and EO/IR sensor OFP software and aircraft modification considerations dictate sole source contracts. MQ-9 UAV leverages service common Contractor Logistics Support (CLS) contracts for aircraft and ancillary equipment sustainment.												
<b>E. Performance Metrics</b>												
N/A												

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 United States Special Operations Command												Date: February 2018			
Appropriation/Budget Activity 0400 / 7						R-1 Program Element (Number/Name) PE 1105219BB / MQ-9 Unmanned Aerial Vehicle (UAV)				Project (Number/Name) S851 / MQ-9 Unmanned Aerial Vehicle (UAV)					
Product Development (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
MQ-9 UAVs, Ground Control Stations, and Training Systems	SS/ Various	General Atomics Aeronautical Services : San Diego, CA	26.383	10.421	Jun 2017	30.669	Jun 2018	14.698	Jun 2019	-		14.698	Continuing	Continuing	-
MQ-9 UAVs, Ground Control Stations, and Training Systems	SS/ Various	Raytheon : McKinney, TX	5.000	2.445	Jul 2017	2.500	Jul 2018	1.292	Jul 2019	-		1.292	Continuing	Continuing	-
Prior Years Completed Projects	Various	Various : Various	15.900	-		-		-		-		-	0.000	15.900	-
Subtotal			47.283	12.866		33.169		15.990		-		15.990	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
MQ-9 UAVs, Ground Control Stations, and Training Systems	SS/ Various	General Atomics Aeronautical Services : San Diego, CA	10.715	4.289	Jun 2017	4.694	Jun 2018	2.413	Jun 2019	-		2.413	Continuing	Continuing	-
Prior Years Completed Projects	Various	Various : Various	5.300	-		-		-		-		-	0.000	5.300	-
Subtotal			16.015	4.289		4.694		2.413		-		2.413	Continuing	Continuing	N/A
			Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			63.298	17.155		37.863		18.403		-		18.403	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2019 United States Special Operations Command

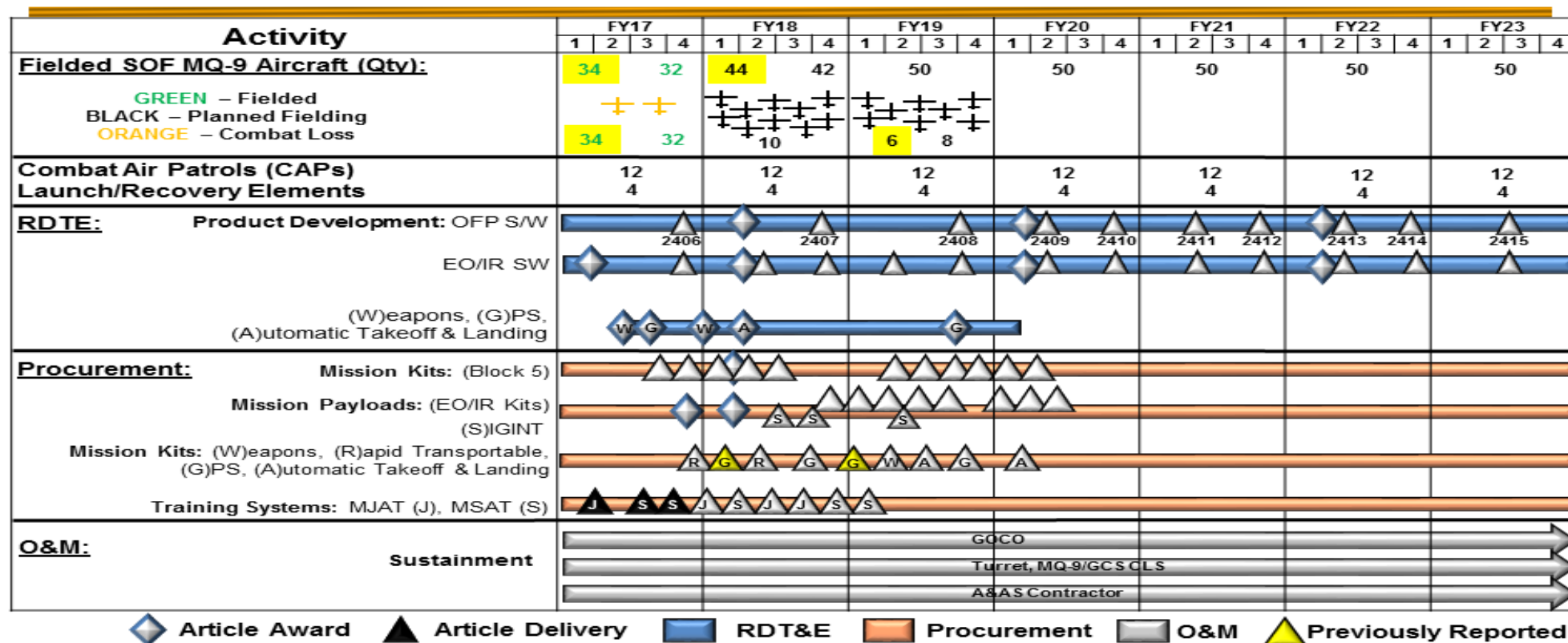
Date: February 2018

Appropriation/Budget Activity  
0400 / 7

R-1 Program Element (Number/Name)  
PE 1105219BB / MQ-9 Unmanned Aerial Vehicle (UAV)

Project (Number/Name)  
S851 / MQ-9 Unmanned Aerial Vehicle (UAV)

## MALET MQ-9 Schedule



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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2019 United States Special Operations Command			<b>Date:</b> February 2018
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1105219BB / MQ-9 Unmanned Aerial Vehicle (UAV)	<b>Project (Number/Name)</b> S851 / MQ-9 Unmanned Aerial Vehicle (UAV)	

**Schedule Details**

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>MQ-9 UAVs, GCSs, and Training Systems</b>				
Operational Flight Program Software (SW)	1	2017	4	2023
Electro-optical/Infrared (EO/IR) Software (SW)	1	2017	4	2023
Weapons	2	2017	4	2019
Global Positioning System	3	2017	4	2019
Automated Takeoff and Landing	2	2018	2	2022